DCA42/GCA42 — PYTHON PROGRAMMING

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define - 'Variable'.

2. Write the significance of 'Type Conversion'.

3. Write the syntax of for statement in Python.

4. State the purpose of a Recursive function.

5. Define - 'Package'.

6. Why 'Namespaces'- are being used in a program?

7. Name any four Built-in Attribute methods.

8. Give an example for an Exception.

9. What is meant by 'Regular expression'?

10. How to use a match() function in python?

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss on Identifiers and Reserved Words in Python.

Or

(b) Explain the Comments and Quotes in Python'.

12. (a) Write short notes on 'Function with more than one return value'.

Or

(b) Exemplify Nested loops in Python.

13. (a) Differentiate between Packages and Modules.

Or

(b) Discuss about Directories in Python.

14. (a) Illustrate the various Built-in Exceptions in Python.

Or

(b) Give a note on Assertions in Python.

15. (a) Discuss about Web Application Framework.

Or

(b) State and Explain the following: (i) search() function (ii) findall( ) method.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elaborate on Lists and Indentation in Python.

17. Discuss about types of Loops in Python.

18. Explain the File Operations in Python?

19. How to create User-defined Exceptions? Explain in detail.

20. Write a detailed note on Django Architecture.